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Attorney Docket No.: 128321.101

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Swinehart et al.

Serial No. 10/788,967

Filed: February 26, 2004

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Group Art Unit: Not yet assigned

Examiner: Not Yet Assigned

For: MICROFLUIDIC CHEMICAL REACTOR FOR THE MANUFACTURE
OF CHEMICALLY-PRODUCED NANOPARTICLES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Mail Stop DD
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. Copies are provided. It is respectfully requested that the documents be expressly considered and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

AUTHORIZATION

No fee is required. The Commissioner is hereby authorized to charge any additional fees which may be required for this submission, or credit any overpayment to deposit account no. 50-0436.

Respectfully submitted,

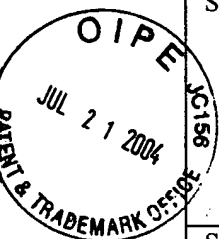
PEPPER HAMILTON LLP

A handwritten signature in black ink, appearing to read "Raymond A. Miller".

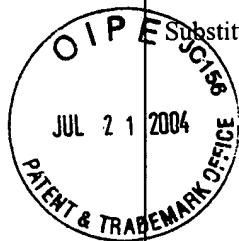
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Date: July 19, 2004



Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known				
				Application Number	10/788,967			
				Filing Date	February 26, 2004			
				First Named Inventor	Swinehart			
				Group Art Unit	Not yet assigned			
				Examiner Name	Not yet assigned			
Sheet	1	of 2	Attorney Docket Number		128321.101			
U.S. PATENT DOCUMENTS								
Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		Number	Kind Code (if known)					
	AA	6,179,912						
	AB	20020144644						
	AC	6,262,129						
	AD	5,637,258						
	AE	6,322,901						
	AF	6,207,229						
	AG	6,576,291						
	AH	20020066401						
	AI	4,452,773						
	AJ	6,302,940						
	AK	6,468,808						
	AL	6,114,038						
	AM	20040009341						
	AN	20030059635						
	AO	20040025634		Nakamura et al.				
FOREIGN PATENT DOCUMENTS								
Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.						T
	CA	F. V. Mikulec, M. Kuno, M. Bennati, D.A. Hall, R.G. Griffin, M.G. Bawendi, <i>J. Am. Chem. Soc.</i> 2000, 122, 2532-2540.						
	CB	C.B. Murray, D.J. Norris, M.G. Bawendi, <i>J. Am. Chem. Soc.</i> , 1993, 115(19), 8706-8715.						
	CC	Z.A. Peng, X. Peng, <i>J. Am. Chem. Soc.</i> , 2001, 123, 183-184.						
	CD	M.L. Steigerwald, A. P. Alivisatos, J. M. Gibson, T. D. Harris, R. Kortan, A.J. Muller, A. M. Thayer, T. M. Duncan, D.C. Douglass, L.E. Brus, <i>J. Am. Chem. Soc.</i> , 1988, 110(10), 3046-3050.						
	CE	J.B. Edel, R. Fortt, J.C. deMello, A.J. deMello; Chemical Communication, 2002, pp. 1136-1137.						
	CF	J. deMello, A. deMello, "Microscale Reactors: Nanoscale Products", Lab on a Chip, 2004 4(2): 2-6. (not published)						
	CG	H. Nakamura, A. Tashiro, Y. Yamaguchi, M. Miyazaki, T. Watari, H. Shimizu, H. Maeda, Application of a microfluidic reaction system for CdSe nanocrystal preparation: their growth kinetics and photoluminescence analysis, Lab on a Chip, 2004, 4.						
	CH	H. Nakamura, et al., Preparation of nanocrystals in a micro-flow-reactor, Paper #447.						
	CI	J. B. Edel et al., Microfluidic routes to the controlled production of nanoparticles, Chem. Commun. 2002, 1136-1137						



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/788,967
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			Group Art Unit	Not yet assigned
			Examiner Name	Not yet assigned
Sheet	2	of 2	Attorney Docket Number 128321.101	
	CJ	E. M. Chan, et al., Size-Controlled Growth of CdSe Nanocrystals in Microfluidic Reactors, <i>Am. Chem. Soc. 2003, Nano Letters</i> , Vol. 3, No. 2, 199-201.		
	CK	J.B. Edel, E.K. Hill, and A.J. deMello, Velocity Measurement of Particulate Flow in Microfluidic Channels Using Single Point Confocal Fluorescence Detection, <i>Analyst</i> , 2001, 126, 1953-1957.		
	CL	B.K.H. Yen, N.E. Stott, K.F. Jensen, and M.G. Bawendi, A Continuous-Flow Microcapillary Reactor for the Preparation of a Size Series of CdSe Nanocrystals, <i>Adv. Mater.</i> , 2003-15, NO. 21, November 4, 1858-1862.		
	CM	H. Wang, X. Li, M. Uehara, Y. Yamaguchi, H. Nakamura, M. Miyazaki, H. Shimizu, and H. Maeda, Continuous Synthesis of CdSe-ZnS Composite Nanoparticles in a Microfluidic Reactor, <i>The Royal Society of Chemistry</i> , 2004, 48-49.		
	CN	C.B. Murray, C.R. Kagan and M.G. Bawendi, Synthesis and Characterization of Monodisperse Nanocrystals and Close-Packed Nanocrystal Assemblies, <i>Annu. Re. Mater. Sci.</i> , 2000, 30:545-610.		
	CO	L. Qu, W.W. Yu, and X. Peng, In Situ Observation of the Nucleation and Growth of CdSe Nanocrystals, <i>American Chemical Society</i> , 2004, <i>Nano Letters</i> , Vol. 4, No. 3, 465-469.		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

APPLICANT: Swinehart, et al.

TITLE: MICROFLUIDIC CHEMICAL REACTOR FOR THE
MANUFACTURE OF CHEMICALLY-PRODUCED
NANOPARTICLES

SERIAL NO. 10/788,967

ATTORNEY REF: 128321.101

DATE OF DEPOSIT: July 19, 2004

I HEREBY CERTIFY THAT THIS INFORMATION DISCLOSURE STATEMENT WITH COPIES OF REFERENCES CITED THEREIN IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE VIA FIRST CLASS MAIL UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO COMMISSIONER FOR PATENTS, MAIL STOP AMENDMENT, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

Jennifer Martinez

(Typed or printed name of person mailing paper or fee)

Documents Enclosed:

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3. Postcard